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FERTILIZER REPORT

FOR THE YEAR 1951

Commonwealth of Pennsylvania

HON. JOHN S. FINE, Governor Department of Agriculture

HON. MILES HORST, Secretary

Harrisburg

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Pennsylvania Department of Agriculture Bureau of Foods and Chemistry

Miles Horst Secretary

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Fertilizer Report—1951

Introduction

All products intended for fertilizing purposes, except the dung of domestic animals, marl, lime, and wood ashes, shall be registered annually in accordance with the provisions of the Pennsylvania Fertilizer Law, Act of May 1, 1909, as amended.

Section 1 requires the following information to be shown on sacks or attached cards: (a) The number of pounds of fertilizer contained in the package; (b) the name, brand, or trade mark under which the fertilizer is sold; (c) the name and principal address of the manufacturer, importer, or other person putting the fertilizer on the market in this Commonwealth; (d) guarantee for nitrogen; (e) guarantee for total phosphoric acid, except in mixed or super-phosphate fertilizer; (f) guarantee for available phosphoric acid; (g) guarantee for potash soluble in distilled water.

Mixed fertilizer shall contain at least sixteen units of plant food based upon guarantees for nitrogen, available phosphoric acid, and water soluble potash, the guarantees to be stated in even units.

The Law requires that when the word "tobacco" is used as a part of the brand name, the potash content must be in a form other than chloride.

Applications for registration are submitted to each previous licensee toward the close of the calendar year. The application must show the preceding year's tonnage sales of each brand in order that license or registration fee can be properly computed. It must also show the names and number of brands to be sold during the ensuing year, and state the analysis of each one of such brands.

Agents of the Bureau of Foods and Chemistry are empowered to collect samples of commercial fertilizers, at which time reports providing full information for each sample are prepared. The samples and reports are forwarded direct to the Harrisburg Laboratory where an immediate check of the record is effected to determine the registration status. Analyses are then performed to ascertain whether the fertilizers conform to their guarantees.

During the year 1951, Agents of the Department collected 688 official samples. Of this number, a total of 675, representing 286 brands registered by 46 manufacturers, were subjected to analysis and classified as follows:

	Brands	Samples
Complete Fertilizers	208	531
Ground Bone Fertilizers	5	5
Superphosphate Fertilizers	26	74
Rock and Potash Fertilizers	42	60
Miscellaneous Fertilizers	5	5
Totals	286	675

Requirements for Registration According to Pennsylvania FERTILIZER LAW

Section 2. Each manufacturer or importer of commercial fertilizer . . . shall, on or before the first day of January of each year, or before offering them for sale in this Commonwealth, file annually with the Secretary of Agriculture a statement of the names and number of brands of such commercial fertilizers, having distinct trade-names, that he shall offer for sale during the next ensuing year, and a copy of the analysis of each one of such brands of commercial fertilizer . . .

Section 3. In addition . . . every manufacturer or importer of commercial fertilizers shall, on or before the first day of January of each year, or before offering them for sale in this Commonwealth, file annually with the Secretary of Agriculture an affidavit showing the amount of each brand of fertilizer, having a distinct trade-name, sold within the Commonwealth during the last preceding year; and if the said amount shall be one hundred and fifty tons or less, he or they shall pay or cause to be paid to the Secretary of Agriculture the sum of fifteen dollars for each and every brand of such commercial fertilizer, having a distinct trade-name, sold within the State during the last preceding year; and if the said amount shall exceed one hundred and fifty tons, and be not more than two hundred and fifty tons, he or they shall pay the sum of twenty dollars, as aforesaid; if the said amount shall exceed two hundred and fifty tons, and not more than four hundred tons, he or they shall pay the sum of thirty dollars; if the amount shall exceed four hundred tons, and not more than five hundred tons, he or they shall pay forty dollars; and if the amount shall exceed five hundred tons, he or they shall pay fifty dollars. If such manufacturer or manufacturers, importer or importers, shall not have made any sales within the Commonwealth during the preceding year. he or they shall pay the sum of fifteen dollars upon each such brand as aforesaid.

Section 5. Any person or persons selling, offering, or exposing for sale, any commercial fertilizer or any brand of the same, having a distinct tradename, without the analysis required by section one of this act, or with an analysis stating that it contains a larger percentage of any one or more of the above-named constituents than is contained therein, or for the sale of which all the provisions of sections two and three have not been complied with, or any person violating any of the provisions of section four of this act, shall be guilty of a misdemeanor, and, on conviction, shall be sentenced to pay a fine of not less than twenty-five nor more than one hundred dollars for the first offense, and not less than two hundred dollars for each subsequent offense. . . .—Act of May 1, 1909, P. L. 344 as amended.

The Department of Agriculture, as the agency charged by the Legislature with enforcement of the provisions of the Fertilizer Law (copies of which are available upon request) insists upon strict compliance therewith.

Brands Registered and Tonnage Sales

Licenses were issued to 110 Manufacturers to cover sales of their brands for the year 1951. These licenses included 769 brands of which 646 were mixed fertilizers and 123 so-called "base" materials such as nitrate of soda, sulphate of ammonia, bone, etc.

The 1951 applications for registration showed that 588,111 tons of all classes of fertilizers sold during the year 1950 compared with 622,190 tons sold during 1949 and classified as follows: Complete Fertilizers, 462,659 tons; Ground Bone Fertilizers, 1,254 tons; Superphosphate Fertilizers, 84,327 tons; Rock and Potash Fertilizers, 26,008 tons; and Miscellaneous Fertilizers as follows: Tankage, 762 tons; Nitrate of Soda, 126 tons; Sulphate of Ammonia, 230 tons; and unclassified, 12,745 tons.

The 1950 tonnage figure reveals that there were supplied 18,170 tons of nitrogen, 53,901 tons of available phosphoric acid, and 34,434 tons of water soluble potash, or a total of 106,505 tons of plant food. The amount of plant food is 4,375 tons less than that supplied during the year 1949.

Conclusions

Of the 675 samples analyzed, 66 or 9.78 per cent were found to be deficient in one or more elements of plant food, to the extent of 0.2 per cent or more. The proportion of deficiencies is lower than that reported for the year 1950.

Considering the plant food elements separately, 25 samples or 3.70 per cent were found to be deficient in nitrogen; 23 or 3.40 per cent deficient in phosphoric acid; 34 or 5.03 per cent deficient in water soluble potash.

Of the total number of fertilizers analyzed, 531 were complete fertilizers and 52 or 9.79 per cent were found to be deficient: 24 or 4.52 per cent deficient in nitrogen; 16 or 3.01 per cent in available phosphoric acid; 22 or 4.14 per cent in water soluble potash.

Average Analyses and Retail Prices

The average unit values, estimated from the average retail selling prices, were as follows: Nitrogen \$4.50, Available Phosphoric Acid \$1.09, Water Soluble Potash \$1.85.

The average retail selling price for Complete Fertilizers in 1951 was \$48.95 a ton, compared with \$48.62 for 1950.

It is noted that 9.78 per cent of all samples collected during the year 1951 were found to be deficient, which deficiency is lower than the previous year's inspection. In most instances the deficiencies were balanced by overages in other elements. Where the deficiencies were found to be of serious nature, prosecutions were instituted.

Key to Tables

The following tables include the results of analyses of the official samples. Each sample was given a chemist's number and analyzed for the element or elements guaranteed.

The Asterisk (*) indicates those samples found to be deficient to the extent of 0.2 per cent or more.

Table I-Deficiencies.

Table II-Average Analyses and Retail Prices.

Table III—Complete Fertilizer, furnishing Nitrogen, Available Phosphoric Acid and Potash.

Table IV—Ground Bone Fertilizers, furnishing Nitrogen, and Total Phosphoric Acid.

Table V—Superphosphate and Lime Phosphate Fertilizers furnishing Available Phosphoric Acid.

Table VI—Rock and Potash Fertilizers furnishing Available Phosphoric Acid and Potash.

Table VII-Miscellaneous Fertilizers.

TABLE I. DEFICIENCIES

CLASS OF FERTILIZERS	SAMPLES	NITROGEN	Number Deficient in AVAILABLE PHOSPHORIC ACID	POTASH
Complete Fertilizers	531	24	16	22
Ground Bone Fertilizers	5	1	0	0
Superphosphate Fertilizers	7.4	0	0	0
Rock and Potash Fertilizers	60	0	7	12
Miscellaneous	5	0	0	0
In Bechanicous		_		
Total	675	25	23	34

TABLE II. AVERAGE ANALYSES AND RETAIL PRICES

FORM OF PLANT FOOD	COMPLETE FERTILIZERS	GROUND BONE FERTILIZERS	SUPER- PHOSPHATE FERTILIZERS*	ROCK AND POTASH FERTILIZERS	MISCEL- LANEOUS
Nitrogen	Per Cent 4.65 11.95 8.06 \$48.95 \$48.62	Per Cent 2.85 28.95 \$105.79 \$ 87.78	Per Cent 20.66 \$32.47 \$30.49	Per Cent 16.03 13.57 \$44.56 \$46.29	Per Cent 26.50 2.76 \$75.70 \$72.50

^{*} Excluding Lime Phosphate

TABLE HI. ANALYSES OF COMPLETE FERTILIZERS—FURNISHING NITROGEN, PHOSPHORIC ACID AND POTASH

MANUFACTURER AND I	PRAND NAME	NITR	OGEN	AVAI PHOSPHO	LABLE ORIG AGID		POTASH	
MANUFACTURER AND	DRAND NAME	Found	Guar.	Found	Guar.	Found	Guar.	As Muriate
THE AMERICAN AGRICULTUR. New York, N		P. et.	P. et.	P. et.	P. et.	P. et.	P. ct.	P. et.
AA Quality Fertilizer AA Guality Fertilizer Agrico Country Club Agrico for Commercial	2-12-12 (632) 3-12-6 (543) 3-12-6 (669) 5-10-5 (670) 5-10-10 (370) 5-10-10 (582) 5-10-10 (671) 6-10-4 (199)	2.12 3.25 3.11 5.11 5.01 5.00 5.01 5.10 6.05	2.00 3.00 3.00 5.00 5.00 5.00 5.00	12.46 12.46 12.46 *11.72 10.58 9.84 11.08 11.02 10.36	12.00 12.00 12.00 10.00 10.00 10.00 10.00 10.00	12.25 6.23 5.98 5.00 5.05 *9.54 10.13 10.34 5.11	12.00 6.00 6.00 5.00 5.00 10.00 10.00 4.00	
Growers Agrico for Corn Agrico for Gardens Agrico for Gardens Agrico for Gardens Agrico for Gardens Agrico for Grain	4-12-4 (664) 3-12-6 (67) 3-12-6 (233) 3-12-6 (243) 5-10-5 (340) 5-10-5 (468) 5-10-5 (468) 5-10-5 (468) 5-10-5 (468) 5-10-6 (525) 2-12-6 (10) 2-12-6 (11) 3-12-6 (128) 3-12-6 (172) 3-12-6 (472) 3-12-6 (525) 3-12-6 (525) 3-12-6 (525) 3-12-6 (525) 3-12-6 (525) 3-12-6 (525) 3-12-6 (525) 3-12-6 (525) 3-12-6 (525) 3-12-6 (525) 3-12-6 (525) 3-12-6 (667)	3.81 3.82 8.91 9.17 9.18 9.17 9.18 9.19 9.19 9.19 9.19 9.19 9.19 9.19	4.00 3.00 3.00 3.00 3.00 4.00 5.00 5.00 5.00 2.00 2.00 2.00 3.00 3.00 3.00 3.00 3	13.26 12.04 11.82 12.68 11.96 12.34 12.38 10.14 10.74 9.98 12.12 12.30 *11.48 11.92 12.30 *11.48 11.92 12.42 12.50 12.42 12.50	12.00 12.00 12.00 12.00 12.00 12.00 12.00 10.00 10.00 10.00 10.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00	3.80 2.88 2.86 2.86 2.95 3.50 3.53 3.53 3.54 3.54 3.56 6.56 6.56 6.56 6.56 6.56 6.56 6.56	4.00 6.00 6.00 6.00 8.00 5.00 5.00 5.00 6.00 6.00 6.00 6.00 6	
& Shrubs	6-10-4 (441)	6.19	6.00	10.74	10.00	4.16	4.00	
Agrico for Lawns, Trees	6-10-4 (501) 4-12-8 (646) 4-12-8 (672) 4-12-12 (29) 4-12-12 (192) 4-12-12 (192) 4-12-10 (677) 5-10-10 (16) 5-10-10 (438) 5-10-10 (438) 5-10-10 (466) 10-6-4 (666) 5-10-5 (15) 5-10-5 (660) 5-10-5 (665) 5-10-6 (665) 5-10-10 (356) 5-10-10 (356) 5-10-10 (526) 5-10-10 (526) 5-10-10 (526) 5-10-10 (526)	6.3020274201022742010214455511382248814232	6.00 4.00 4.00 4.00 4.00 4.00 5.00	10.88 *11.56 12.14 12.42 12.04 13.12 12.54 10.54 10.62 10.44 10.90 7.14 6.60 10.16 10.38 10.06 10.78 *9.72 10.62	10.00 12.00 12.00 12.00 12.00 12.00 12.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00	38.64 88.666 12.84 12.14 10.12 10.14 10.17 10.17 10.47	\$ 00 8 00 8 00 12 00 12 00 12 00 10 00 10 00 10 00 10 00 5 00 5 00 5	
ARMOUR FERTILIZEF Baltimore, Mo								İ
Armour's Big Crop	3-12-6 (17) 3-12-6 (82) 3-12-6 (230) 3-12-6 (260) 3-12-6 (366) 3-12-6 (483) 3-12-6 (595) 3-12-6 (597) 3-12-6 (597) 3-12-6 (597) 3-12-6 (597) 3-12-6 (597) 3-12-8 (360) 4-12-4 (488) 4-12-4 (507) 4-12-8 (360) 4-12-8 (360) 4-12-8 (486) 4-12-12 (510) 4-16-8 (605) 5-10-5 (303) 5-10-5 (303) 5-10-5 (498) 5-10-5 (498) 5-10-10 (837) 5-10-10 (837) 5-10-10 (197) 5-10-10 (197) 5-10-10 (573)	0899256764545111001399061137882471881040631	3.00 3.00	12.60 12.86 12.86 12.66 12.66 12.94 12.94 12.70 12.72 12.73 12.92 12.84 12.84 12.84 12.84 12.70 12.95 12.84 12.84 12.84 12.84 12.84 12.84 12.84 12.84 12.84 12.84 12.84 13.00 12.95 13.38 13.46 12.84 13.00 12.95 13.38 13.46 14.80	12.00 13.00 14.00 15.00 15.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00	666666666666464888882178555555561991	6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00	
* Deficient	4							

TABLE III. ANALYSES OF COMPLETE FERTILIZERS—FURNISHING NITROGEN, PHOSPHORIC ACID AND POTASH

		NITRO	GEN	AVAIL PHOSPHO			POTASH	
MANUFACTURER AND E	BRAND NAME	Found	Guar.	Found	Guar.	Found	Guar.	As Muriate
		P. et.	P. ct.	P. et.	P. et.	P. ct.	P. ct.	P. ct.
rmour's Big Crop rmour's Big Crop rmour Vertagreen	5-10-10 (597) 5-10-10 (630) 5-10-5 (291) 5-10-5 (304) 5-10-5 (365) 5-10-5 (520) 5-10-5 (520) 5-10-5 (520) 6-12-12 (231) 6-12-12 (508) 10-6-4 (539)	*3.81 *4.70 5.08 5.02 5.02 5.40 5.40 5.26 *9.54	5.00 5.00 5.00 5.00 5.00 5.00 6.00 6.00	11.84 11.16 10.66 10.64 11.26 10.74 11.24 11.48 12.70 12.08 12.02 7.26	10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 12.00 12.00 12.00 6.00	*7.66 9.93 5.33 5.00 4.83 5.09 5.39 5.47 12.10 12.23 12.56 4.36	10.00 10.00 5.00 5.00 5.00 5.00 5.00 12.00 12.00 12.00 4.00	
BAUGH & SONS CO Philadelphia,								
Baugh's Baugh's Baugh's	5-10-10 (264) 5-10-10 (589) 5-10-10 (678)	5.00 5.07 4.86	5.00 5.00 5.00	11.26 11.20 11.46	10.00 10.00 10.00	10.00 10.60 10.19	10.00 10.00 10.00	
Baugh's Balanced Plant Food	4-12-4 (516)	4.23	4.00	12.34	12.00	6.91	4.00	
Baugh's Balanced Flant Food	4-12 4 (633)	3.90	4.00	13.18	12.00	4.64	4.00	
Baugh's Century Plant Food	4-8-12 (679)	4.09	4.00	8.30	8.00	12.27	12.00	
Saugh's Century Plant Food	4-12-8 (72)	3.84	4.00	12.72	12.00	8.47	8.00	
Baugh's Century Flant Food	4-12-8 (278)	4.23	4.00	12.84	12.00	8.75	8.00	
Baugh's Double Eagle Phosphate	3-12 - 6 (70)	3.14	3.00	12.00	12.00	6.65	6.00	
Baugh's Double Eagle Phosphate	3-12-6 (148)	3.11	3.00	12.14	12.00	6.45	6,00	
Baugh's Double Eagle Fhosphate	3-12-6 (515)	3.56	3.00	12.46	12.00	6.76	6.00	
Baugh's Double Eagle Phosphate	3-12-6 (542)	3.16	3.00	12.56	12.00	6.36	6.00	
Baugh's Premium Flant Food & Soil Builder	3-12-6 (37)	3.07	3.00	12.00	12.00	6.26	6.00	
Baugh's Premium Plant Food & Soil Builder	3-12-6 (71)	3.22	3.00	12.38	12.00	6.42	6.00	
Baugh's Premium Flant Food & Soil Builder	3-12-6 (213)	3.01	3.00	12.00	12.00	6.75	6.00	
Baugh's Fremium Plant Food & Soil Builder	3-12-6 (277)	3.26	3.00	12.64	12.00	6.76	6.00	
Baugh's Fremium Plant Food & Soil Builder	3-12-6 (411)		3.00	12.10	12.00	6.50	6.00	
Baugh's Premium Plant Food & Soil Builder	3-12-6 (587)		3.00	12.82	12.00	6.73	6.00	
Baugh's Premium Plant Food & Soil Builder	3-12-6 (623)		3.00	12.32	12.00	6.43	6.00	
Baugh's Fremium Plant Food & Soil Builder	3-12-6 (624)		3.00	12.34	12.00	6.32	6.00	
Baugh's Fremium Plant Food & Soil Builder	3-12-6 (649	3.33	3.00	12.60	12.00	6.84	6.00	
Baugh's Premium Plant Food & Soil Builder	4-12-12 (145		4.00	12.76	12.00	12.58	12.00	
Baugh's Premium Flant Food & Soil Builder	4-12-12 (263) i 4.33	4.00	12.18	12.00	*11,22	12.00	
Baugh's Premium Plant Food & Soil Builder	5-10-5 (38		5.00	10.00	10.00	5.17	5.00	
Baugh's Fremium Plant Food & Soil Builder	5-10-5 (146		5.00	10.90	10.00	5.67	5.00	
Baugh's Premium Plant Food & Soil Builder	5-10-5 (214		5.00	10.88	10.00	6.38	5.00	
Baugh's Premium Plant Food & Soil Builder	5-10-5 (276		5.00	10.96	10.00	5.12	5.00	
Baugh's Fremium Plant Food & Soil Builder	5-10-5 (339		5.00	11.42	10.00	5.58	5.00	
Baugh's Fremium Flant Food & Soil Builder	5-10-5 (350		5.00	10.88	10.00	5.17	5.00	
Baugh's Premium Plant Food & Soil Builder	5-10-5 (475		5.00	10.76	10.00	5.10	5.00	
Baugh's Premium Plant Food & Soil Builder	5-10-5 (650		5.00	10.26	10.00	5.33	5.00	
Baugh's Premium Plant Food & Soil Builder	5-10-10 (39		5.00	10.74	10.00	9.83	10.00	
Baugh's Premium Plant Food & Soil Builder	-10-10 (143		5.00	10.74	10.00	10.41	10.00	
Baugh's Fremium Plant Food & Soil Builder	5-10-10 (215		5.00	11.14	10.00	10.47	10.00	
Baugh's Premium Plant Food & Soil Builder	5-10-10 (262		5.00	11.08	10.00	10.55	10.00	
Baugh's Premium Plant Food & Soil Builder	5-10-10 (474		5.00	10.96	10.00	10.58	10.00	
Baugh's Premium Plant Food & Soil Builder	7-7-7 (147		7.00	7.68	7.00	7.00	7.00	
Baugh's Tree Food & Soil Dresser	10-10-10 (144		10.00	11.14	10.00	10.84	10.00	
Baugh's Trucker's Favorite	5-10 - 5 (51)		5.00	9.82	10.00	5.29	5.00	
* De^icient								

		LABLE DRIC ACID		POTASH				
MANCIACIONER AND E			 	-	Guar.	Found	Guar.	As Muriate
CARLISLE FERTILIZER WO	RKS, INC.	P. et.	P. ct.	P. ct.	P. ct.	P. et.	P. ct.	P. ct.
Carlisle, Pa.	3-12-6 (397) 5-10-10 (398)	3.67	3.00 5.00	13.02	12.00	6.36 11.47	6,00	
Carlisle CENTRAL CHEMICAL COR Hagerstown, M	PORATION)•21	5.00	11.42	10.00	11.47	10,00	
Permuita Famone Fruit		10.05	10.00	6 26	6.00	1. 30	1. 00	
Farmrite Famous Fruit Food	10-6-4 (25)	10.05 *9.54	10.00	6.26 7.14	6,00	4.12 4.41	4.00	
Farmrite Famous Potato	5-10-10 (173)	4.92	5.00	10.26	10.00	11.56	10.00	
Farrrite Famous Tobacco	4-8-12 (332) 9-9-9 (331) 4-12-4 (21)	4.04 8.81 4.20	4.00 9.00 4.00		8.00 9.00 12.00 12.00	11.85 8.97 4.83 5.10	12.00 9.00 4.00 4.00	
Farmrite Farmers Favorite	4-12-4 (315)	4.01 4.06 4.01 4.94 4.29	4.00 4.00 4.00 4.00	12.04 12.58 *11.10 12.02	12.00 12.00 12.00	4.46 4.23 9.28	4.00 4.00 8.00 8.00	
Farmrite Fertilizer Farmrite Fertilizer Farmrite Fertilizer Farmrite Fertilizer Farmrite Fertilizer	5-10-10 (18) 5-10-10 (171) 5-10-10 (333) 5-10-10 (685)	5.19	5.00	10.00 10.04 10.22	10.00 10.00 10.00	10.58 10.78 *9.21	10.00 10.00 10.00	
Farmrite Fertilizer Farmrite Fertilizer	5-10-10 (685) 5-10-10 (686) 5-10-10 (687) 5-10-10 (688)	5.01 5.09 5.10 5.02 5.02 5.10	5.00 5.00 5.00 5.00	9.90 9.92 10.06 10.00	10.00 10.00 10.00 10.00	10.38 10.04 9.81 9.94	10.00 10.00 10.00 10.00	
Formrite Fertilizer Formrite Fertilizer Formrite Fertilizer	5-20-10 (523) 8-16-16 (524) 10-10-10 (24) 10-10-10 (522)	5.10 *7.53 *9.61	5.00 5.00 8.00 10.00 10.00 3.00	20.26 17.34 9.82	20.00 16.00 10.00	10.06 *15.18 10.45	10.00 16.00 10.00	
Farmrite Fertilizer Farmrite Golden Grain Farmrite Golden Grain	3-12-6 (19) 3-12-6 (90)	2.87	3,00	1 2 02	10.00 12.00 12.00	9.98 6.59 6.30	10.00 6.00 6.00	
Formrite Golden Grain Farmrite Golden Grain Formrite Golden Grain	3 -1 2 - 6 (316) (2.92 3.25 3.66	3.00 3.00 3.00	12.58 12.32 11.82	12.00	6.73 6.34	6.00 6.00 6.00	
Formrite Golden Grain Formrite Golden Grain	3-12-6 (480) 3-12-6 (590)	3.C7	3.00	12,98 13.48	12.00 12.00	6.33 6.05	6.00	
Formrite Truck Special Formrite Truck Special	5-10-5 (20) 5-10-5 (169)	5.co 4.81	5.00	10.04	10.00	5.38	5.00 5.00	
Farmrite Truck Special Farmrite Truck Special Growell Complete		5.13 5.00 4.81 5.28 4.84 5.19	à .	10.46	12.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00	5.04 5.37	5.00 5.00 5.00	
CULE RLAND VALLEY COOPE		4 .1 4	4.00	12.08	12,00	4.35	4.00	
Shippensburg, Old Reliable	Pa. 3-12-6 (405)	2.84	3.00	14.88	12.00	7.66	6,00	
THE DAVISON CHETCAL Baltimore,			de la company de					
Davco Granulated	2-12-12 (485) 3-12-6 (3) 3-12-6 (40)	3.02	2.00 3.00 3.00	12.66 12.04 12.04	12.00 12.00 12.00	12.66 *4.85 6.11	12.00 6.00 6.00	
Davco Granulated Davco Granulated Davco Granulated Davco Granulated	3-12-6 (59) i 3-12-6 (181)	3 13	1 3.00	11.86	12.00 12.00 12.00 12.00	6. 1 7 5.84	6,00 6,00	
Davoo Granulated Davoo Granulated Davoo Granulated	3-12-6 (202) 3-12-6 (248) 3-12-6 (299) 3-12-6 (296)	3.18	3.00 3.00 3.00 3.00	12.12 13.32 12.32 12.42	12.00 12.00 12.00 12.00 12.00	6.06 6.52 6.6 <u>1</u>	6.00 6.00 6.00	
Davco Granulated Davco Granulated Davco Granulated Davco Granulated	3-12-6 (296) 3-12-6 (378) 3-12-6 (489)	346/	3.00	12.42	12.00	6.68 8.20	6.00	
Davco Granulated Davco Granulated	3-12-6 (546)	3.24	3.00	12.30	12.00	6.27 *5.54 6.14	6.00 6.00	
Davcc Granulated Davcc Granulated Davcc Granulated	3-12-6 (583) 3-12-6 (61+) 4-12-4 (1)	3.41 3.19	3.00 3.00 4.00	12.62 12.22 12.08	12.00	6.76	6.00	
Davco Granulated Davco Granulated Davco Granulated	4-12-4 (1) 4-12-4 (200) 4-12-4 (294)	4.01 4.53 4.10	4.00	12.20 11.90	12.00 12.00 12.00	3.94 4.38 4.10	4.00 4.00 4.00	
Davco Granulated Davco Granulated	4-12-4 (376) 4-12-4 (615)	4.06 4.10	4.00	13.82 11.80	12.00 12.00	4.61 4.21	4.00 4.00	
Davco Granulated Davco Granulated	4-12-8 (182) 4-12-8 (297)	4.35 4.01	4.00	12.24	12.00 12.00	7.96 8.54	8.00 8.00	
Davco Granulated Davco Granulated	4-12-8 (298) 4-12-3 (491)	5.09 4.08	4.00	12.78	12.00 12.00	*5.24 8.36	8.00 8.00	
Davco Granulated Davco Granulated	4-12-8 (585) 4-16-8 (180)	4.09 4.23	4.00	12.56	12.00	7.98	8.00 8.00	
Davco Granulated Davco Granulated Davco Granulated	5-10-5 (60) 5-10-5 (295) 5-10-5 (300)	5.26 5.34 5.10	5.00 5.00 5.00	10.02 10.58 10.84	10.00 10.00 10.00	5.02 5.19 5.25 5.33	5.00 5.00 5.00	
Davco Granulated Davco Granulated	5-10-5 (379) 5-10-5 (492)	4.81 5.37	5.00	11.94	10.00	5.33	5.00	
Davco Granulated Davco Granulated	5-10-5 (616) 5-10-5 (617)	5.59 4.93	5.00	11.42	10.00	5.29 5.01	5.00 5.00	
Davco Granulated Davco Granulated	5-10-10 (43) 5-10-10 (179)	4.80 4.81	5.00 5.00 5.00	10.92	10.00	10.40	10.00	
Davco Granulated Davco Granulated	5-10-10 (249) 5-10-10 (302)	4.81 5.57 5.18	5.00	11.52	10.00	10.62	10.00	
Davco Granulated Davco Granulated Davco Granulated	5-10-10 (377) 5-10-10 (584) 5-10-10 (612)	5.18 4.91 5.11	5.00 5.00 5.00	10.86 10.90 10.98	10.00 10.00 10.00	10.36 *9.58 10.31	10.00 10.00 10.00	
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* Deficient								

TABLE III. ANALYSES OF COMPLETE FERTILIZERS—FURNISHING NITROGEN, PHOSPHORIC ACID AND POTASH

		NITRO	GEN	AVAIL	ABLE RIC ACID		POTASH	
MANUFACTURER AND B	RAND NAME		Guar.	Found	Guar.	Found	Guar.	As Muriate
		P. ct.	P. ct.	P. et.	P. ct.	P. ct.	P. et.	P. ct.
EASTERN STATES FARMERS INCORPORATED	* EXCHANGE							
					12.00 12.00 12.00 12.00 12.00 12.00 10.00 10.00 10.00 10.00 15.00 15.00 20.00 20.00 20.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00		(00	
Castern States	3-12-6 (223) 3-12-6 (252)	3.39	3.00	12.76 12.68	12.00	6.64	6.00 6.00 6.00 6.00	
Castern States	3-12-6 (307) 3-12-6 (495)	3.41	3.00 3.00	12.46 12.50	12.00	7.05	6.00	
Castern States	5-10-10 (89)	5.26	5.00 5.00	10.28	10.00	10.90	10.00	
Eastern States	5-10-10 (225)	5.21	5.00	10.70	10.00	10.95	10.00	
astern States Eastern States	5-10-10 (305)	5.13	5.00	10.50	10.00	10.88	10.00	
Castern States Castern States	5-10-10 (452)	5.15	5.00	10.90	10.00	10.97 10.66	10.00	
Eastern States Eastern States	5-15-15 (224)	4.82	5.00	16.18	15.00	15.39	15.00 15.00	
Eastern States Eastern States	5-15-15 (544)	5.34	5.00	14.96	15.00	16.00	15.00	
Eastern States Eastern States	5-20-10 (454)	4.81	5.00	20.12	20.00	10.54	10.00	
Eastern States Eastern States	8-16-8 (250)	8.32	8.00	16.92	16.00	8.73	8.00 8.00	
Eastern States Eastern States	8-16-8 (457) 8-16-16 (161)	6.13 7.92	8.00	16.42	16.00	17.69	16.00	
Eastern States Eastern States	8-16-16 (256) 8-16-16 (306)	7.88 7.82	8.00	16.58	16.00	17.26	16.00	
Eastern States Eastern States	8-16-16 (401) 8-16-16 (545)	8.29 *7.65	8.00	17.80	16.00	16.79	16.00	
Eastern States	10-10-10 (258)	10.14 9.81	10.00	10.72	10.00	10.48	10.00	
West Springfield, Castern States Cas	10-10-10 (493)	10.42	10.00	10,34	10.00	11.40	10,00	
AMOS EBY & COI Paradise, Pa	a.							
Eby Eby	3-12-6 (122) 4-8-12 (120) 4-12-4 (123) 5-10-10 (124)	2.91	3.00	12.84 9.10	12.00 8.00 12.00 10.00	6.32 13.15 4.25 10.88	12.00	
Epà Epà	4-12-4 (123) 5-10-10 (124)	3.81 4.82	4.00 5.00	13.38	12.00	10.88	10.00	
ERIE REDUCTION	COMPANY							
Erie, Pa. Erie Flant Food	4-12-8 (668)	3.82	4.00	13.28	12.00	*7.20	8.00	
FARMERS FERTILIZ	ER WORKS							
Elizabethtown		3 25	3.00	13.08	12.00	7.12	6.00 6.00 8.00 12.00 5.00 5.00 10.00	
Farmers Farmers Farmers Farmers Farmers Farmers Farmers Farmers Farmers	3-12-6 (107) 3-12-6 (449) 4-12-8 (106)	3.25 3.31 4.35 4.13	3.00	12.74	12.00	7.17 8.76	6.00	
Farmers Farmers	4-12-12 (105)	4.13 5.06	4.00	12.58	12,00	13.62	12.00	
Farmers Farmers	5-10-5 (104) 5-10-5 (448) 5-10-10 (103) 5-10-10 (447)	4.92 5.24 5.12	5.00	11.24	10,00	5.90 10.54	10.00	
Farmers Farmers	5-10-10 (447)	5.12	5.00	11.08	10.00	10.19	10.00	
Farmers Donegal Plant Food Farmers Tobacco Special	5-10-5 (110) k-8-12 (112)	5 35	5.00	11.04	10.00	6.79 12.43	5.00 12.00	
G.L.F. SOIL BUILDIN								
Ithaca, N. Y	7.	2 12	3 00	12.60	12,00	6.79	6.00	
G.L.F. Plant Food G.L.F. Plant Food G.L.F. Plant Food G.L.F. Plant Food G.L.F. Flant Food	3-12-6 (373)	3.43 3.17 3.47	3.00	12.60 12.52 12.70 12.26 12.74 10.78	12.00	6.79 7.48 6.37 6.63 4.90	6.00	
G.L.F. Plant Food	3-12-6 (682)	3.21	3.00	12.26	12.00	6.63 4.90	6.00 4.00	
G. D. F. I Land I cod		5.37 5.09	5.00 5.00	10.78	10.00	5.96 5.89 5.26	5.00 5.00 5.00	
G.L.F. Plant Food G.L.F. Plant Food	5-10-5 (652) 5-10-5 (683) 4-12-12 (568)	5.33	5.00	10.18	10.00	12.05	12.00	
G.L.F. Super Plant Food G.L.F. Super Plant Food	5_10_10 (569)	5.19 5.27	5.00	10.66	10.00	10.48 10.85	10.00	
G.L.F. Super Plant Food G.L.F. Super Plant Food G.L.F. Super Plant Food G.L.F. Super Plant Food G.L.F. Super Flant Food G.L.F. Super Plant Food	5-10-10 (337) 5-10-10 (371) 5-10-10 (684)	5.55	5.00	10.22	10.00	10.49	10.00	
G.L.F. Super Plant Food G.L.F. Super Plant Food	6-12-6 (345) 6-12-6 (372)	6.36	6.00	12.28	12.00	6.68 6.26	6.00	
G.L.F. Super Plant Food G.L.F. Super Plant Food G.L.F. Super Plant Food	6-12-6 (345) 6-12-6 (372) 6-12-6 (653) 6-18-6 (347)	5.83	6.00	12.56	12.00	7.00 6.68	6.00	
G.L.F. Super Plant Food	0-10-10 (340)	6.26 8.49	8.00	16.68	16.00	15.98	16.00	
A. D. GRAHAM & CO. Somerset,	Pa.	2.22	2 00	12.14	12.00	6.86	6.00	
Beaver Brand Beaver Brand	3-12-6 (207) 4-12-12 (212) 5-10-10 (208)	3.33 4.15 5.22	3.00 4.00 5.00	12.82	12.00	11.94	12.00	
Beaver Brand Beaver Brand	5-10-19 (208) 5-10-10 (209)	5.05	5.00	10.22	10,00	10.41	10.00	
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TABLE III. ANALYSES OF COMPLETE FERTILIZERS—FURNISHING NITROGEN, PHOSPHORIC ACID AND POTASH

MANUEL COMPERANTO	DD AND MAND	NITR	OGEN	AVAI PHOSPH	LABLE ORIC ACID		POTASH	
MANUFACTURER AND I	DRAND NAME	Found	Guar.	Found	Guar.	Found	Guar.	As Muriate
		P. et.	P. et.	P. ct.	P. et.	P. et.	P. et.	P. et.
CRIFFITH & BOYD (Baltimore, 1								
Griffith & Boyd's Champion Griffith & Boyd's Farmer:	4-12-12 (321)	4.16	4.00	12.42	12.00	12.79	12.00	
	n 5-10-10 (462)	5.12	5.00	12,36	10,00	*9.20	10.00	
Brand Griffith & Boyd's Nitro	5-10-10 (460)	5.18	5.00	11.94	10.00	*9.75	10.00	
Crop Feeder Griffith & Boyd's	10-6-4 (320)	*8.14	10.00	8,82	6.00	5.04	4.00	
Planters Pride Griffith & Boyd's	3-12-6 (222)	3.01	3.00	12.98	12.00	6.71	6,00	
Planters Pride Criffith & Boyd's	3-12-6 (461)	3.20	3.00	12.72	12.00	6.57	6,00	
Planters Pride Griffith & Boyd's Truck	3-12-6 (509)	3.18	3.00	12.48	12.00	6.55	6.00	
Potato Special Griffith & Boyd's Truck &	1 5-10-5 (220)	4.81	5.00	10.62	10,00	5.66	5.00	
Potato Special		5.28	5.00	10.54	10.00	5.40	5.00	:
HEEMAN MANUFACTURII Wooster, Oh:							and the second	
Wooster Lawn Builder with 2-14-1	h D 8-8-4 (293)	8.82	8.00	9.46	8.00	4.24	4.00	
A. H. HOFFMAN Landisville,			ļ					
Hoffman Rose Food	5-10-5 (113)	5.05	5.00	10.58	10,00	6.35	5.00	
INDEPENDENT MANUFACTUR Philadelphia,	Pa.				and the second s			-
Independent's Consumer Independent's Consumer	3-12-6 (287) 4-12-8 (272)	3.43 4.01	3.00	12.30 12.52	12.00	6.80	6.00	
Independent's Consumer Independent's Consumer	4-12-12 (286) 4-12-12 (421)	4.22	4.00	12.02	12.00	11.97	12.00	
Independent's Consumer Independent's Consumer	5-10-5 (273) 5-10-10 (420)	5.40	5.00	10.22	10.00	6.77 9.80	5.00	
Independent's Standard INTERNATIONAL MI AND CHEMICAL CORI	PORATION	5.12	5.00	10.14	10.00	10.26	10.00	
Buffalo, N.		2 07	2 00	3.2.0	10.00	6.67	6.00	
International Premium	3-12-6 (661)	3.01	3.00	12,24	12.00	6.07	0.00	
KOLLER FERTILIZER York, Pa.	COMPANI							
Koller's Atomic Potato	5 10 10 (97)	£ 0.0	£ 00	30.26	10.00	10,42	10.00	
Fhosphate Koller's Elk Phosphate	5-10-10 (87) 3-12-6 (84)	5.27 3.22	5.00 3.00	10.86	10.00	6.73	10.00 6.00	
Koller's Keystone Fotato Phosphate	4-12-8 (86)	4.19	4.00	13.30 13.04	12.00	8.08	8.00	
Koller's Fotato Phosphate		4.35	4.00	13.14	12.00	12.83	12.00	
LANCASTER BONE FERTII INCORFORATE Quarryville,	ED							
Conestoga Conestoga	3-12-6 (58) 3-12-6 (126)	3.05	3.00	12.12 *11.66	12.00	5.82 6.12	6.00 6.00	
Conestoga	5-10-10 (129)	3.33 4.83	5.00	10.72	10.00	10.02	10.00	
LEBANON FERTILIZER V Lebanon, Pa								
Levan's Levan's	3-12-6 (325) 4-12-4 (324)	3.30 4.13	3.00	12.86 13.18	12.00	6.41	6.00 4.00	
Levan's Levan's	4-12-8 (323) 4-12-12 (327)	4.33 4.12	4.00	12.56 12.72	12.00 12.00	8.70 12.79	8.00	
Levan's Levan's	5-10-5 (326) 5-10-10 (322)	5.31 5.34	5.00 5.00	10.94	10.00	5.35 10.54	5.00	
FRED E. LORD, INCOR Espy, Pa.	, , , , , , , , , , , , , , , , , , , ,							
Lord's Lord's	3-12-6 (51) 4-12-12 (52)	3.02 4.18	3.00	13.24 13.26	12.00	5.83 *11.22	6.00	
Lord's Lord's	3-12-6 (51) 4-12-12 (52) 5-10-5 (55) 5-10-10 (54)	4.92 5.12	5.00	11.00	10.00	*8.53	5.00 10.00	
MATHIESON CHEMICAL Baltimore,	CORPORATION	7.14	5.00	12.30	10.00	********	10,00	
Mathieson		6.23	5.00	*9.26	10.00	11.32	10.00	
Mathieson Mathieson	5-10-10 (117) 6-24-12 (478) 6-24-12 (579)	*5.27 6.37	6.00	*21.58 24.22	24.00	15.78	12.00	
Mathieson	8-16-16 (479)	*6.71	8.00	16.30	16.00	*11.79	16.00	
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TABLE III. ANALYSES OF COMPLETE FERTILIZERS—FURNISHING NITROGEN, PHOSPHORIC ACID AND POTASH

PHOSI HORIC ROLD		PHOSPHORIC ACID		PHOSPHORIC ACID		As
Found				Muriate P. ct.		
P. ct.		P. ct.	P. ct.	r.ct.		
12.68 12.12 12.48 12.08 10.50	2.68 12.00 2.12 12.00 2.48 12.00 2.08 12.00 0.50 10.00	5.92 6.64 4.58 4.41 10.45	6.00 6.00 4.00 4.00 10.00.			
10,24	0.24 10.00	5.29	4,00			
12.58 8.94	2.58 12.00 8.94 8.00	8.11 12.85	6.00 12.00			
12,52 12.42 12.76 13.09 12.66 12.22 12.28 12.20 12.66 12.22 12.28 12.20 12.24 12.20 12.30 12.30 12.30 12.30 12.30 12.40 12.60	11.12 10.00 10.50 10.00 10.58 10.00 10.62 10.00 10.62 10.00 10.52 10.00 20.68 20.00 20.82 20.00 20.82 20.00 20.24 20.00 16.44 16.00 16.36 16.00 17.54 16.00 10.44 10.00	2402825252763866765916925515312166766586666674646444888898855555555555555555555555555	6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00			
12.26 12.24 12.16 12.64 10.96 11.08	12.24 12.16 12.64 12.00 10.96 10.00	13.00 5.00	6.00 4.00 8.00 12.00 5.00 10.00			
		12.24 12.16 12.00 12.64 12.00 10.96	12.24 12.00 4.36 12.16 12.00 7.96 12.64 12.00 13.00 10.96 10.00 5.00	12.24 12.00 4.36 4.00 12.16 12.00 7.96 8.00 12.64 12.00 13.00 12.00 10.96 10.00 5.00 5.00		

TABLE III. ANALYSES OF COMPLETE FERTILIZERS—FURNISHING NITROGEN, PHOSPHORIC ACID AND POTASH

MANUFACTURER AND BRAND NAME	NITI	ROGEN	AVA PHOSPI	ILABLE IORIC ACID		POTASH	
MAINT THE FERRILAND DRAWD NAME	Found	Guar.	Found	Guar,	Found	Guar.	As Muriate
ROBERT A. REIGHARD. ING. Allentown, Pa.	P. et.	P. et.	P. ct.	P. et.	P. ct.	P. et.	P. et.
Reichard's Animal Base 3-12-6 (418) Reichard's Animal Base 3-12-6 (418) Reichard's Animal Base 3-12-6 (440) Reichard's Animal Base 4-12-4 (165) Reichard's Animal Base 4-12-24 (415) Reichard's Animal Base 4-12-12 (166) Reichard's Animal Base 5-10-5 (168) Reichard's Animal Base 5-10-5 (423) Reichard's Animal Base 5-10-6 (423) Reichard's Animal Base 5-10-10 (164) Reichard's Animal Base 5-10-10 (419) Reichard's Famous 8-16-16 (167)	3.06 3.17 3.83 3.89 4.03 4.87 4.92 4.88 5.21 4.88	33.000 44.000 6000 6000 6000 6000 6000 600	12.54 12.72 12.90 11.82 11.96 12.50 10.62 10.68 10.44 10.08 10.00 16.94	12.00 12.00 12.00 12.00 12.00 12.00 10.00 10.00 10.00 10.00 10.00	6.51 6.18 6.00 6.74 9.961 11.75 5.100 9.95 16.97	6.00 6.00 6.00 4.00 4.00 5.00 5.00 10.00 10.00	
F. S. ROYSTER GUANO GOMPANY Baltimore, Md.					\$		
Royster Guano	0.34.39.27.5.9.69.55.35.45.2.2.31.28.31.38.2.44.44.45.55.55.45.42.2.31.28.31.38.24.38.24.38.24.38.24.39.25.59.25.35.45.25.55.25.25.25.25.25.25.25.25.25.25.25	2.00 3.00 3.00 3.00 3.00 3.00 3.00 4.00 4	13.58 12.84 12.84 13.386 12.668 12.628 12.020 *11.70 12.242 11.20 10.88 10.764 12.626 10.88 10.764 11.626 10.856 10.40 10.40 10.40 10.40	12.00 12.00	12,33 16,37 6,37 6,37 6,57 6,47 11,97 8,79 11,57 11,57 11,57 11,57 11,57 11,57 11,03 10,03 10,03 10,03 10,18	12.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00	
Lawns, Flowers & Shrubs 5-10-5 (662) SEARS, ROEBUCK & GOMFANY	5.11	5.00	10.00	10,00	5.58	5.00	
Ghicago, Ill.	4.97	5.00	10.90	10.00	5.56	5.00	
Successful Grop Grower 3-12-12 (330) Successful Crop Grower 5-1-10 (329)	3.43 2.88 5.01	3.00 3.00 5.00	12.58 13.18 11.52	12.00 12.00 10.00	6.84 12.48 10.09	6.00 12.00 10.00	
M. L. SHOEMAKER DIVISION OF WILSON & GUTTANY. ING. Philadelphia, Pa.							
F. L Shoemaker's "Swift Sure" 3-12-6 (280) "Swift Sure" 5-10-5 (267) "Swift Sure" 5-10-10 (266) SULBERS FERTILIZER COMMANY, ING.	3.44 5.33 5.23		12.98 10.34 11.12	12.00 10.00 10.00	6.12 5.16 10.62	6.00 5.00 10.00	
Baltimore, Md.	3.11	3.00	12.04	12,00	6.95	6.00	
"Surmers" Best-On-Earth 3-12-6 (74) "Surmers" Best-On-Earth 3-12-6 (133) SWAGK FERTILIZER GOMPANY DUBOis, Pa.	3.11	3.00	12.56	12.00	6.38	6,00	
Swack's 3-12-6 (36) Swack's 3-12-6 (204) Swack's 3-12-6 (610) Swack's 4-12-8 (477) Swack's 5-10-10 (33) Swack's 5-10-10 (20-5)	2.95 3.01 2.86 4.20 5.13 5.08	3.00 3.00 4.00 5.00	12.64 12.00 13.02 12.92 10.60 10.52 10.48	12.00 12.00 12.00 12.00 10.00 10.00	6.02 6.00 5.95 7.93 5.18 10.79	6.00 6.00 6.00 8.00 5.00 10.00	
SWIFT & GOMIANY FLANT FOOD DIVISION Baltimore, Md.							
Elenn 3-12-6 (65) Elenn 3-17-6 (430) Elenn 3-12-6 (c31) Elenn 3-12-2 (14) Elenn 5-17-10 (66) Erinn 5-10-10 (216)	3.21 3.21 3.31 3.06 5.04 5.18	3.00	12.62 12.22 13.09 12.12 10.66 10.42	12.00 12.00 12.00 12.00 10.00 10.00	6.88 6.59 6.68 12.60 9.83	6.00 6.00 6.00 12.00 10.00	
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TABLE III. ANALYSES OF COMPLETE FERTILIZERS—FURNISHING NITROGEN, PHOSPHORIC ACID AND POTASH

		NITRO	EN	AVAILA PHOSPHOR	RIC ACID		POTASH	As
MANUFACTURER AND	BRAND NAME	Found	Guar.	Found		Found	Guar.	Muriate
imm iff's Red Steer iff's Red	5-10-10 (\(\frac{428}{28}\)) 5-10-10 (530) 5-10-10 (657) 3-12-6 (13) 3-12-6 (135) 3-12-6 (189) 3-12-6 (414) 3-12-6 (414) 3-12-6 (414)	et 18315513004769968587222253172879967412	P. et. 55.00 55.00 65.00	P. et. 10.06 11.06 11.06 12.58 12.66 12.14 12.30 12.74 12.28 12.94 12.29 12.94 12.30 12.94 12.50 12.94	P. ct. 10.00 10.00 10.00 12.00 12.00 12.00	P. ct. 10.03 9.87 10.74 6.67 16.69 6.69 6.69 7.77 6.71 6.124 4.72 *11.3333 6.50 10.535 6.01 10.8850	P. ct. 10.00 10.00 10.00 6.00 6.00 6.00 6.00	P. ct.
igoro I. P. THOMAS & S Camden, N	I. J.							
P. Thomas P. Thomas P. Thomas P. Thomas ip Top ip Top ip Top	5-10-5 (562) 5-10-10 (561) 5-10-10 (640) 3-12-6 (565) 3-12-6 (542) 3-12-6 (566)	5.00 5.04 5.25 3.15 2.90 3.20	5.00 5.00 5.00 3.00 3.00 3.00	11.58 11.32 11.16 12.04 12.46 12.56	10.00 10.00 10.00 12.00 12.00 12.00	6.60	5.00 10.00 10.00 6.00 6.00 6.00	
F, W. TUNNELL & CO Philadelph:	OMPANY. INC.							
Cunnell's Fertilizer	3-12-6 (417) 3-12-6 (537) 4-12-8 (269) 5-10-5 (281) 5-10-5 (553) 5-10-10 (268) 5-10-10 (402) 5-10-10 (402) 5-10-10 (538) 5-10-10 (538)	3.22 3.24 3.19 5.19 5.19 5.19 5.19 5.11	5.00 5.00 5.00 5.00 5.00	11.98 12.14 10.40 13.44 10.48 10.00 10.54	12.00 12.00 12.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00	10.62	10.00 10.00 10.00	
UNIVERSAL CHEMI Lynn, Ma	CAL COLFANY							
Electra Plant Food	5-10-3 (352)	5.33	5.00	9.92	10.00	3.21	3.00	
VIRGINIA-CAROLINA Baltimore	CHEMICAL CORP.					1	4 00	
V-C Fertilizer	3-12-6 (3.24 3.156 4.156 4.43 4.219 5.328 5.18	3.00 33.00 33.00 33.00 33.00 33.00 33.00 33.00 34.00 44.00 55.00 55.00 55.00	12.14 13.26 11.82 12.42 12.24 12.52 12.52 12.52 12.46 12.34 11.84 10.94 10.52 10.22 10.84	12,00 12,00 12,00 12,00 12,00 12,00 12,00 12,00 12,00 12,00 10,00 10,00 10,00 10,00	6.31 6.39 6.19 6.19 8.36 6.19 8.36 4.88 4.22 8.64 12.87 5.10 10.20 10.47 16.83	6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00	
York,	, Pa.	2 70	3 00	12.04	12,00	6.51	6.00	
Cramer's York Cramer's York	3-12-6 (63) 5-10-10 (64) 5-10-10 (88)	5.43	3.00 5.00 5.00	10.16	10.00	11.48 11.14	10.00	

TABLE IV. GROUND BONE FERTILIZERS-FURNISHING NITROGEN AND PHOSPHORIC ACID

MANUFACTURER AND BRAND NAME	1		OGEN		ORIC ACID
		Found	Guar.	Found	Guar
		P. et.	P. ct.	P. et.	P. ct.
CENTRAL CHEMICAL CORPORATION Labanon, Pa.					
'armrite Bona Meal	(313)	2.83	2.30	24.30	20.00
DOLD FEED COMPANY, INC. Buffalo, N. Y.					
oold Quality Bone Meal	(362)	2.86	2.00	02.00	
A. H. HOFFMAN, INC.	(302)	2.00	2.00	23.90	23,00
Landisvilla, Pa.					1
offman Bona Meal (Raw)	(114)	*3.11	3.70	1	1
INDEPENDENT MANUFACTURING COMPANY Philadelphia, Pa.					
ndepandent's Bone Meal	(274)	2.71	2.47	24.50	22.00
F. W. TUNNELL & COMPANY, INC.	(27.7	~• /±	2.17	24.90	23.00
Philadelphia, Fa.					1
unnall's Pure Ground Bone	(271)	2.76	2.47	25.20	23.00
	- 1				
				1	1
			1		
			1		B.
					1
					l.
				1	
				1	1
	- 1				
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			E	1	
Deficient					
Deficient					

TABLE V. SUPERPHOSPHATE AND LIME PHOSPHATE FERTILIZERS—FURNISHING PHOSPHORIC ACID

	-	, m	al	Avail	RIC ACID	Insol	uble
MANUFACTURER AND BRAND NAME	_	Tot	Guar.	Found	Guar.	Found	Guar.
		Found P. et.	P. et.	P. et.	P. et.	P. ct.	P. et.
THE AMERICAN AGRICULTURAL CHEMICAL (20.	1,	.,				
ormal Superphosphate 18%	(12) (27) (68) (198) (234) (249) (357) (385) (471) (581) (674)			18.78 18.84 18.74 18.48 19.36 19.44 18.74 18.58 20.82 19.44	18.00 18.00 18.00 18.00 18.00 18.00 18.00 18.00 18.00 18.00		
ARMOUR FERTILIZER WORKS Baltimore, Md.							
rmour's Big Crop Superphosphate 20% rmour's Big Crop Superphosphate 20% rmour's Big Crop Superphosphate 20% rmour's Big Crop Superphosphate 20% rmour's Big Crop Superphosphate 20%	(159) (518) (574) (628) (651)			20.34 21.14 21.44 20.98 21.16	20.00 20.00 20.00 20.00 20.00		
BAUGH & SONS COMPANY Philadelphie, Pa.						-	
Beugh's Superphosphate 20% Beugh's Superphosphate 20%	(275) (288)			20.00	20.00		
CARLISLE FERTILIZER WORKS, INC. Cerlisle, Pe.				00.00	20.00		
Carlisle Superphosphate 20%	(399)			20.82	20.00		1
CENTRAL CHEMICAL CORPORATION Hagerstown, Md.				27 1.2	20.00	Berne and a second	
Sarmrite Superphosphate 20% Farmrite Superphosphate 20%	(502) (588)			21.42 21.78	20.00		
CULBERLAND VALLEY COOFFRATIVE ASSN Shippensburg, Pa.				20.66	20.00		
Old Reliable Superphosphate 20% Old Reliable Superphosphate 20%	(91) (403)			20,66	20.00		
THE DAVISON CHEMICAL CORPORATION Baltimore, Md.				20.02	20.00		
Davoo Granulated Superphosphate 20% Davoo Granulated Superphosphete 20% Davoo Granulated Superphosphete 20% Davoo Granulated Superphosphate 20%	(2) (41) (178) (183) (201) (301) (466) (490) (578) (586) (618)		5	20.92 20.58 19.82 21.64 20.94 21.10 20.12 21.28 21.16 21.62 21.06	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00		
EASTERN STATE FARMERS' EXCHANGE INCORPORATED West Springfield, Mass.					THE IS NO PERSONAL PROPERTY.		
Eastern States Superphosphate Granulated 20%	(226)			20.96	20.00	4	
Eastern States Superphosphate Granulated 20%	(308)	1		20.98	20,00		
Eastern States Superphosphate Granulated 20%	(453)			20.48	20.00		Adams
AMOS EBY & COMPANY Paradise, Pa.				00.01	20.00		
Eby Superphosphete 20%	(119)			20.94	20,00		
FARMERS FERTILIZER WORKS Elizabethtown, Pa.							
Farmers Superphosphete 20%	(111)			20,98	20.00		
* Deficient		1					

TABLE V. SUPERPHOSPHATE AND LIME PHOSPHATE FERTILIZERS—FURNISHING PHOSPHORIC ACID

	Ì-		,		ORIC ACID		
MANUFAGTURER AND BRAND NAME	-	Tot Found	Guar.	Found	ilable Guar.	Inso	
		P. ct.	P. ct.	P. ct.	P. ct.	Found P. et.	Guar. P. ct.
G.I.F. SOIL BUILDING SERVICE Ithace, N. Y.			1.00	1.00	1.00		1.00
G.I.F. Superphosphate 20% G.L.F. Superphosphate 20% G.L.F. Superphosphate 20%	(375) (567) (571)			20.60 20.90 21.30	20.00 20.00 20.00		
GRIFFITH & BOYD COMPANY Baltimore, Md.							
Griffith & Boyd's Superphosphete 20%	(221)			21.44	20.00		
INTERNATIONAL MINERALS AND CHEMICAL CORPORATION Buffelo, N. Y.							
Internetional Superphosphate 20% International Superphosphete 20%	(369) (660)			20.70 21.00	20.00		
LANCASTER BONE FERTILIZER COMPANY INCORPORATED Quarryville, Pe.							
Conestoge Superphosphete 18%	(128)			18.50	18.00		
FRED E. LORD, INCORPORATED Espy, Pa.							
Lord's Superphosphate 20%	(57)			21.10	20.00		
MILLER CHENICAL & FERTILIZER CORP. Baltimore, Md.							
Superphosphate 20%	(62)			20.62	20.00		
PENNSYLVANIA FARM BUREAU COCPERATIVE ASSN. Harrisburg, Pe.					Ī		1
C.F.S. Superphosphate 20% C.F.S. Superphosphate 20% C.F.S. Superphosphete 20% C.F.S. Superphosphete 20% C.F.S. Superphosphate 20% C.F.S. Superphosphete 20%	(8) (45) (80) (177) (205) (396)			20.76 20.76 21.06 21.36 20.94 20.84	20,00 20,00 20,00 20,00 20,00 20,00		
READING BONE FERTILIZER COMPANY Reading, Pa.					20.00		
Reading Superphosphate 20% Reading Superphosphete 20%	(142) (407)			20.08 20.62	20.00		
ROBERT A. REICHARD, INC. Allentown, Pe.							
Reicherd's Famous Superphosphate 20%	(424)			20.68	20.00		
F. S. ROYSTER GUANO COMPANY Baltimore, Md.							
Royster Superphosphate 20% Royster Superphosphate 20% Royster Superphosphete 20% Royster Superphosphete 20% Royster Superphosphete 20% Royster Superphosphete 20%	(310) (527) (560) (577) (604) (663)			21.62 21.78 21.08 21.82 21.22 20.52	20.00 20.00 20.00 20.00 20.00 20.00		,
SWACK FERTILIZER COMPANY DuBois, Pe.							
Swack's Superphosphete 20%	(35)	1		21.52	200		
SWIFT & COMPANY PLANT FOOD DIVISION Baltimore, Md.							
Swift's Red Steer Superphosphete 20% Swift's Red Steer Superphosphete 20%	(431) (621)	1		21.88 21.14	20.00 20.00		
I. P. TROMAS & SON COMPANY Camden, N. J.							
Superphosphete 20% Superphosphete 20%	(563) (643)			21.56 21.14	20.00 20.00		
* Deficient							

TABLE V. SUPERPHOSPHATE AND LIME PHOSPHATE FERTILIZERS—FURNISHING PHOSPHORIC ACID

4-40	_	m ·	-1	PHOSPHO Avai		Inso	uble
MANUFACTURER AND BRAND NAME	_	Tot		Found	Guar.	Found	Guar.
		Found P. et.	Guar. P. ct.	P. ct.	P. et.	P. ct.	P. ct.
		r. et.	r.ct.	1.00	1,66.		
F. W. TUNNELL & COMPANY, INC. Philadelphia, Pa.							
unnell's Superphosphate 20% unnell's Superphosphate 20%	(283) (413)			20.04	20,00		
VIRGINIA-CAROLINA CHEMICAL COMPANY Baltimore, Md.							- Constant
-C Superphosphate 20% -C Superphosphate 18%	(572) (599)			21.88 19.50	20.00		
YORK STONE & SUPPLY COMPANY York, Pa.							
ramer's York Superphosphate 20%	(81)			21,58	20,00		
					ļ		
						in gas and an	
							}
			1				
						The state of the s	
				# er			
		1					
* Deficient							

TABLE VI. ROCK AND POTASH FERTILIZERS—FURNISHING PHOSPHORIC ACID AND POTASH

MANUFACTURER AND BRA	NID NIAME		AVAI PHOSPH	LABLE ORIC ACID		POTASH	
MANOTACTORER AND BRA	ND NAME		Found	Guar.	Found	Guar.	As Muriate
			P. ct.	P. et.	P. et.	P. et.	P. ct.
THE ALERICAN AGRICULTURAL CHI New York, N. Y.	MICAL COMP	ANY			,		
AA Quality Fertilizer Agrico Phosphate & Fotash Agrico Phosphate & Fotash Agrico Phosphate & Potash	0-14-14 0-12-12 0-12-12 0-12-12 0-14-7 0-14-7 0-14-7 0-14-14	(676) (197) (465) (467) (194) (439) (675) (384)	13.04 12.40 15.14	14.00 12.00 12.00 14.00 14.00 14.00	14.91 12.72 *11.76 12.94 *6.60 7.42 7.48	14.00 12.00 12.00 12.00 7.00 7.00 7.00 14.00	
ARLOUR FERTILIZER WE Baltimore, Md.	ORKS					İ	
Armour's Big Crop Armour's Big Crop	0-20-20 0-20-20			20.00 20.00	22.72 *17.72	20.00	
BAUGH & SONS COLA Philadelphia, F		1					
Baugh's Fhosphate & Potash Lixture Baugh's Phosphate & Potash	0-12-12		12.18	12.00	12,99	12.00	
Mixture CENTRAL CHEMICAL CORF Hagerstown, Md		(265)	14.54	14.00	8.30	7.00	
Formrite Fertilizer Farmrite Fertilizer Farmrite Fertilizer Farmrite Fertilizer	0-14-7 0-14-7 0-14-14 0-14-14	(22) (482) (23) (521)	14.34 14.02 14.02 14.62	14.00 14.00 14.00 14.00	7.42 6.81 13.93 14.33	7.00 7.00 14.00 14.00	
CUIBERLAND VALLEY CCOPERA Shippersburg, Pa							
Old Reliable THE DAVISON CHEMICAL CO Baltimore, Md.		(404)	17.80	14.00	*5.72	7.00	
Davco Granulated Davco Granulated Old Reliable	0-14-7 0-14-14 0-20-20	(42) (613) (247)	14.74 15.14 *18.10	14.00 14.00 20.00	8,24 14,39 *19,72	14.00 20.00	
EASTERN STATES PARLERS' INCORPORATED West Springfield,		and the state of t					
Eastern States Eastern States Eastern States Eastern States with Borax	0-20-20 0-20-20 0-20-20 0-19-19	(254) (459) (494) (253)	20.12 20.00 19.84 19.60	20.00 20.00 20.00 19.00	21.20 21.44 22.54 18.87	20.00 20.00 20.00 19.00	
ALTOS EBY & COLFA Paradise, Pa.)					
Eby	C-14-7	(121)	14.28	14.00	8,21	7.00	
FARLERS FERTILIZER Elizebethtown, P	a.						
Farmers Farmers	0-12-12 0-14-7	(108)	13.08 14.50	12.00 14.00	13.03 8.22	12.00	
G.L.F. SOIL BUILDING Ithaca, N. Y.		`					
G.L.F. Super Plant Food G.L.F. Super Plant Food G.L.F. Super Plant Food	0-20-20 0-20-20 0-20-20	(338) (359) (639)	20.04 20.00 19.80	20.00 20.00 20.00	20.62 20.00 20.86	20.00 20.00 20.00	
A. D. GRAHALI & COUPA Somerset, Pa.	NY, INC.	•				1	
Beaver Brand Beaver Brand GEIFFITH & BOYD COM	0-12-12 0-14-7	(210) (211)	12.84 14.88	12.00 14.00	12.67 8.43	12.00	
Baltimore, Md.	INI				,		
Griffith & Boyd's Phosphate & Potrsh Griffith & Boyd's Special Grain Grower	0-20 - 20	(218) (219)	19.84 14.46	20.00	20.00	20.00	7
LANCASTER BONE FERTILIZER Quarryville, P	COMFANY,		17.70	17,00	7.29	7.00	
Conestoga Conestoga	0-12-12 0-14-7	(125) (127)	13.12 15.48	12.00	*10.89	12.00	
FRED E. LORD, IN Espy, Pa.	·	(127)	17,40	14.00	*6,67	7.00	
Lord's Ford's	0-12-12 0-20-20	(56) (53)	13.12 *19.78	12.00 20.00	12.96 21.48	12.00 20.00	
* Deficient							

TABLE VI. ROCK AND POTASH FERTILIZERS—FURNISHING PHOSPHORIC ACID AND POTASH

MANUFACTURER AND BRAND NAME				AVAIL PHOSPHO	ABLE RIC ACID		POTASH	As
PENSYLVANIA PARM BUREAU COOMERATUE ASSN. Harrisburg, Fa.	MANUFACTURER AND BRAI	ND NAME				Found		Muriate
COOMERATIVE ASSN. RABRISDURG, Fa. P.S. 0-14-7 (6) 14-70 14-00 7.62 7.00 7.95 7.00 7.9				P. ct.	P. et.	P. ct.	P. ct.	P. ct.
-1.1.	COOPERATIVE ASSI	i.						
Rayster Phosphate & Potash 0-14-7 (556) 14.58 14.00 20	.F.S. .F.S. .F.S. .F.S.	0-14-7 0-14-7 0-14-14 0-14-14 0-14-14 0-20-20	(242) (445) (149) (536) (593)	15.36 15.28 15.16 14.96 15.10 20.00	14.00 14.00 14.00	7.95 15.58 14.29	14.00 14.00 14.00 20.00	
Royster Phosphate & Potash 0-20-20 (381) 19.04 20.00 20.00 20.00	F. S. ROYSTER GUANO Baltimore, Md	COMPANY •						
"Summers" 0-14-7 (132) 14.04 14.00 7.66 7.00 STACK FERTILIZER COMPANY DuBois, Pa. SWACK'S 0-14-7 (34) 14.42 14.00 6.91 7.00 SWACK'S 0-14-7 (34) 14.42 14.00 7.74 7.00 SWACK'S 0-14-7 (425) 15.58 14.00 14.17 14.00 SWIFT'S Red Steer 0-14-14 (529) 15.58 14.00 14.17 14.00 SWIFT'S Red Steer 0-20-20 (386) *19.48 20.00 *19.36 20.00 SWIFT'S Red Steer 0-20-20 (532) *16.82 20.00 *17.87 20.00 SWIFT'S Red Steer 0-20-20 (564) *17.82 20.00 *17.87 20.00 SWIFT'S Red Steer 0-20-20 (641) *17.68 20.00 *14.84 20.00 I. F. THOMAS & SON COMPANY Canden, N. J. I. F. Thomas 0-20-20 (641) *17.68 20.00 *14.84 20.00 TURNELL & COMPANY, INC. Philadelphia, Fa. Tunnell'S 0-12-12 (284) 12.84 12.00 11.80 7.95 7.00 Tunnell'S 0-14-7 (270) 14.22 14.00 7.95 7.00 VPC Fertilizer 0-12-12 (552) 12.68 12.00 13.02 12.00 PAGENIA-CAROLINA CHEMICAL CORFORATION Baltimore, Md. V-C Fertilizer 0-12-12 (552) 12.68 12.00 20.00 20.00	Royster Phosphate & Potash Royster Fhosphate & Potash	0-1 ¹ +-7 0-20-20	(556) (381)	14.58 19.84		7.31 20.90		
STACK FERTILIZER COMPANY DuBois, Pa. SWACK'S C-14-7 (34) 14.42 14.00 6.91 7.00 SWACK'S SWIFT & COMPANY PLANT FOOD DIVISION Baltimore, Md. SWIFT'S Red Steer O-14-7 (425) 15.58 14.00 14.17 14.00 SWIFT'S Red Steer 0-20-20 (386) *19.48 20.00 *19.36 20.00 SWIFT'S Red Steer 0-20-20 (532) *16.82 20.00 *17.87 20.00 SWIFT'S RED STEER O-20-20 (564) *17.82 20.00 *17.87 20.00 SWIFT'S RED STEER O-20-20 (564) *17.82 20.00 *17.87 20.00 SWIFT'S RED STEER O-20-20 (564) *17.82 20.00 *17.96 20.00 SWIFT'S RED STEER O-20-20 (641) *17.68 20.00 *14.84 20.00 I. F. THOMAS & SON COMPANY Canden, N. J. I. F. Thomas C-20-20 (564) *17.82 20.00 *14.84 20.00 THOMAS O-20-20 (641) *17.68 20.00 *14.84 20.00 F. W. TURNELL & COMPANY, INC. Philadelphia, Pa. Tunnell'S O-14-7 (270) 14.22 14.00 7.95 7.00 TURNELL'S VIRGINIA-CAROLINA CHENICAL CORPORATION Baltimore, Md. V-C Fertilizer C-12-12 (552) 12.68 12.00 13.02 12.00 SON THE STEER OF	SUMPLERS FERTILIZER COM Baltimore, Md	•	(222)	7). di	14 00	7, 66	7.00	
SWIFT & COMPANY PLANT FOOD DIVISION Baltimore, Md. Swift's Red Steer 0-14-7 (425) 15.58 14.00 7.74 14.17 14.00 Swift's Red Steer 0-20-20 (386) *10.48 20.00 *19.36 20.00 Swift's Red Steer 0-20-20 (532) *16.82 20.00 *17.87 20.00 Swift's Red Steer 0-20-20 (532) *16.82 20.00 *17.87 20.00 I. P. THOMAS & SON COMPANY Canden, N. J. I. F. Thomas 0-20-20 (564) *17.82 20.00 *17.96 20.00 I. P. Thomas 0-20-20 (641) *17.68 20.00 *14.24 20.00 F. W. TURNELL & COMPANY, INC. Philadelphia, Pa. Tunnell's 0-12-12 (284) 12.84 12.00 11.80 7.95 7.00 VIRGINIA-CAROLINA CHEMICAL CORFORATION Baltimore, Md. V-C Fertilizer 0-12-12 (552) 12.68 12.00 13.02 12.00 V-C Fertilizer 12.00 12.00 20.00	SWACK FERTILIZER C	OMPANY	(132)	T+* 0+				
Swift's Red Steer 0-14-7 (425) 14.66 14.00 7.74 7.00 14.05 15.58 14.00 14.07 14.00 1	SWIFT & COMPAN PLANT FOOD DIVIS	ION IA	(34)	14.42	14.00	6.91	7.00	
Canden, N. J. I. F. Thomas 1. P. Thomas 20.00 (564) *17.82 20.00 *17.96 20.00 20.00 F. W. TUNNELL & COMPANY, INC. Philadelphia, Pa. Tunnell's 0-12-12 (284) 12.84 12.00 11.80 7.95 7.00 Tunnell's 0-14-7 (270) 14.22 14.00 7.95 7.00 VIRGINIA-CARCLINA CHEMICAL CORPORATION Baltimore, Má. V-C Fertilizer 0-12-12 (552) 12.68 12.00 13.02 12.00 V-C Fertilizer 0-12-12 (552) 12.68 12.00 20.00 20.00	Swift's Red Steer Swift's Red Steer Swift's Red Steer Swift's Red Steer	0-11+-7 0-11+-11+ 0-20-20 0-20-20	(425) (529) (386) (532)	14.66 15.58 *19.48 *18.82	14.00 14.00 20.00 20.00	7.74 14.17 *19.36 *17.87	14.00	
I. P. Thomas F. W. TUNNELL & COMPANY, INC. Philadelphia, Pa. Tunnell's 0-12-12 (284) 12.84 12.00 11.80 7.95 7.00 Tunnell's 0-14-7 (270) 14.22 14.00 7.95 7.00 VIRGINIA-CAROLINA CHEMICAL CORFORATION Baltimore, Md. V-C Fertilizer 0-12-12 (552) 12.68 12.00 13.02 12.00 V-C Fertilizer 0-12-12 (552) 12.68 12.00 20.00 20.08 20.00	Camden, N	J.,	(564) (A1)	*17.82 *17.68	20,00	*17.96 *14.84	20,00	
Tunnell's 0-14-7 (270) 14.22 14.00 7.95 7.00 Tunnell's VIRGINIA-CARCLINA CHEMICAL CORFORATION Baltimore, Md. V-C Fertilizer 0-12-12 (552) 12.68 12.00 13.02 12.00	F. W. TUNNELL & COMP.	ANY, INC.	(011)	17.00	1			
V-C Fertilizer (552) 12.68 12.00 13.02 12.00	Turnell's	0-14-7	(270)	12.84 14.22		11.80	12.00	1
	Baltimore, D	a.		12.68	12.00	13.02	12.00	

TABLE VII. MISCELLANEOUS FERTILIZERS

MANUFACTURER AND BRAND NAME		NITROGEN	OGEN			PHOSPH	PHOSPHORIC ACID	
					Total	Ave	Available	
		Found	Guar.		Guar	Found	Guar,	
		P, ct.	P. ct,	P. ct,	P. ct.	P. ct.	P. ct.	
THE AMERICAN AGRICULTURAL CHEMICAL COSFANY New York, N. Y.								
Agrinite	(635)	8,36	8.25					
AMERICAN CYANALED CORPANY NEW YORK, N. Y.								
Aero Cyanamid, Granular Aeroprills Arronium Mitrate, Fortilizer	(353)	20.64	20.60					
E. I. DUPOUT DE NEMOURS & COMFANY WINDERFORD, DEL.	(202)	22.20	33.50					
DuPont Nugreen	(361)	14.73	00 - 1 ₁ -1 ₁					
STWERAGE CONTISSION OF THE CITY OF MILWAUTER MILWAUKOO, WIS.								
Milorganite	(589)	5.87	8			, ,		
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